

SYSTEM AND METHOD FOR STATE PRESERVATION IN
A STRETCH CLUSTER

ABSTRACT OF THE DISCLOSURE

5 A system and method for preserving the data content of a network having a cluster
is provided in which each of the network interface controllers of the servers of the cluster includes
a copy of a set of data. Each of the network interface controllers includes a local power source, local
memory, and an operating system, allowing the network interface controllers to remain in
communication despite a failure to one or both of the associated servers. The data may be
operational data that is critical to the operation of the cluster system. Alterations to the set of data
can only be made by a write operation that is logically atomic or indivisible. Incomplete write
operations are discarded unless a successful write operation is performed to both servers.

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